

Vinicius Lima

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EDUCATION

Purdue University, Polytechnic Institute

- **Ph.D. in Technology with Data Visualization emphasis**

Research focus: Identification of patterns in crime/forensic data.

Funding project: Filetsar+, a digital forensic tool to analyse networks files, sponsored by NIJ.

*West Lafayette, IN
2021 - 2025 (expected)*

University of Brasilia, Engineering Department

- **Master in Electrical Engineering, with an emphasis in Computer Forensics**

Research focus: development of a device that collects data from vehicle movements and generate a simulated visualization to understand and reconstruct a traffic accident.

Brasília, Brazil

2016 - 2017

University of Applied Sciences (IMC)

- **Specialization in Leadership and Public Management for Smart Cities**

Krems an der Donau, Austria

2014

University of Brasilia, Engineering Department

- **Bachelor in Network Engineering**

Brasília, Brazil

2007 - 2011

SKILLS

- Machine Learning, Applied Statistics, Data Analysis, Visualizations, Forensic Sciences.
- Python, Php, SQL, CSS, HTML, Javascript, Unity.
- Tableau, Microsoft Power BI, Matlab, Wireshark, FTK Imager, Photoshop, Processing.

Languages

- English (fluent), German (intermediate), Spanish (intermediate), Portuguese (native).

PROFESSIONAL EXPERIENCE

Research Assistant

Purdue University, Computer Graphics Dept.

- Ph.D. student funded by the Polytechnic Institute, working on Data Visualization Lab, supervised by Dr. Byrd.
- Current research: apply machine learning algorithms and data visualization to get insights from crime datasets.
- Other projects: Lead and work with a team of undergraduate students to develop web data visualization tools.

*Aug 2021 - present
West Lafayette, IN, USA*

Data Analyst

BRASA - Brazilian Student Association

- Volunteer work to develop projects that empower Brazilians studying abroad.
- Define strategic and objective indicators to support decisions within the association and from partners.
- Development of dashboards for insight and results audition.

*Jan 2022 - present
Atlanta - GA (Remote)*

Forensic Engineer

Jan 2013 - Aug 2021

Criminalistics Institute, Federal District Civil Police

Brasília, Brazil

- Public Servant, responsible for collecting and examining criminal evidence, analyzing the overall crime scene, and producing a final report to police investigators and authorities.
- Admitted in the 29th position from more than 8,000 candidates in the government selection process.
- Led forensics analysis teams for 78 crime scenes (over 2 years), and more than 1,400 traffic accidents (6 years).
- Headed a team of 25 forensics experts in the Traffic Accident Reconstruction Sector from 2019 to 2021.
- Led a team of computer science undergraduates in the research “Forensic Intelligence Approach On Traffic Accidents”.
- Led the research project to develop decision-making tools for accident prevention. The result was the first visualization tool in Brazil to use data collected in-field and from forensic reports to be displayed and bring insights.
- Developed a social project, lecturing public high school students on the importance of safe driving.
- Awarded in 2016 from the Fundação de Peritos em Criminalística Ilaraine Acácio Arce

Instructor/tutor

Oct 2018 - Aug 2021

Estrategia Concursos

Sao Paulo, SP, Brazil (Remote)

- Taught online courses in Telecommunications, Communication Networks, Operational Systems, and Databases.
- Created more than 50 summary ebooks in the same disciplines.

Mentor

Dec 2019 - Aug 2021

VL Treinamentos (own company)

Brasilia Brazil (Remote)

- Mentored more than 80 students who were preparing for public exams in Brazil (governmental jobs).
- Organized the students' plans, set objectives, and measured deliverables. Approval rate was about 87%.

Research Assistant

Nov 2012 - Jan 2013

University of Brasilia

Brasília, DF, Brazil

- Collaborated with a team of researchers led by Professor Rafael Timóteo, developing a Web-based system for Human Resources in the Federal Government Administration.

Internship

Jan 2010 - Dec 2010

Oi (Telecommunication Company)

Brasília, DF, Brazil

- Responsible for the analysis and verification of clients' communication network contracts.

Web Design Internship

Aug 2008 - Dec 2009

EngNet (Undergraduate Student's Company)

Brasília, DF, Brazil

- Volunteer work, responsible for the layout of client's websites. Worked on a total of 12 projects.

PUBLICATIONS AND PRESENTATIONS

Papers

LIMA, V.; Byrd, V.

Insights and Hotspot Prediction of Severe Traffic Accidents in the Federal District of Brazil.

(Under revision)

LIMA, V.; Gois, J.M.V.A.; Silva, F. T.A

Forensic Intelligence Approach On Traffic Accidents In The Brazilian Federal District.

26th International Conference on Urban Transport and the Environment, WIT Press, 2020.

LIMA, V.; Zelenovisky, R.

Accelerometer and Gyroscope Proposal to Improve Forensic Work in Brazil.

Revista Brasileira de Criminalística, 2017.

Presentations

A Forensic Intelligence Approach On Traffic Accidents In The Brazilian Federal District.

Oral and Poster Presentation, 22th Triennial Meeting of the International Association of Forensic Sciences (IAFS), Sydney Australia.

Accelerometer and Gyroscope Proposal to Improve Forensic Work in Brazil.

Oral and Poster Presentation, 21th Triennial Meeting of the International Association of Forensic Sciences (IAFS), Toronto, Canada.

SOCIAL IMPACT

- Volunteer work: Taught English language for local children in need from 7 to 12 years old (2020). Classes were online while in the COVID19 lockdown situation.
- Lectures about Vehicle Accident Prevention and Physics for high schoolers in 2020. Lectures were online while in a lockdown situation.
- Church volunteer work organization in 2008, 2009, and 2011: Delivered food and clothes to families in need.

OTHER INTERESTS

- Sports like soccer, badminton, rowing. Joined Brasilia's Soccer Police Team in 2017 WPFG in Los Angeles. Engaged in Purdue's crew team (2021).
- Photography and video editing.
- Books about psychology, neurology, sociology, and biographies.